

## ABSTRACT OF THE INVENTION

A reciprocating device for a polishing roller of an emery-polishing machine includes a connect device pivotally connected with a bearing base for a support shaft of a polishing roller to fit in, a belt wheel fixed on the connect device to rotate the support shaft together with the polishing roller, and a reciprocating device having a belt wheel, a worm engaging a worm wheel to rotate a rotating shaft to move an eccentric member fixed on the upper end of the rotating shaft. Then the eccentric member rotates eccentrically to move back and forth to move a shaft sleeve of the support shaft of the polishing roller so that the polishing roller may also move sidewise back and forth in addition to its rotation to upgrade polishing effect against wooden works.